Land and Water Boards of the Mackenzie Valley









LAND USE PERMIT APPLICATION FORM

Subsection 19(2) and Schedule 2 of the Mackenzie Valley Land Use Regulations

Use an "X" to indicate which	Mackenzie Valley Land and Water Board:	x	Sahtu Land and Water Board:	
Application is being made to:	Wek'èezhìi Land and Water Board:		Gwich'in Land and Water Board:	

To complete this Form, please refer to the MVLWB <u>Guide to the Land Use Permitting Process</u> (Guide) and fill in the grey fields; attach additional pages, as necessary. Indicate N/A in the grey fields for Items or parts of Items that are not applicable. An application package checklist is provided in the Guide. Review the following MVLWB guidance for formatting your Application Package:

- Document Submission Standards
- <u>Standard Outline for Management Plans</u>

If applicable, provide the existing or current Land Use Permit file number:			
Use an "X" to indicate if this Application is a	ccompanied	Water Licence – in a non-federal area:	
by an Application for a Water Licence:		Water Licence – in a federal area:	

1. NAME AND CONTACT INFORMATION - APPLICANT I

Applicant's Name:	Buddy Doyle							
Position:	Director							
Company Name:	Lake Winn Resources Corp.	Lake Winn Resources Corp.						
Mailing Address:	1111 Melville Street, 11 th Floor							
Community:	Vancouver	Telephone:	(604-689-1799					
Prov/Terr:	British Columbia	Email:	info@lakewinnresources.com					
Postal Code:	V6E 3V6	Other:						

2. NAME AND CONTACT INFORMATION – APPLICANT'S HEAD OFFICE

Include a Certificate of Corporate Registration from the Government of the Northwest Territories in your Application Package.

Use an "X" to indic	Use an "X" to indicate this information is the same as Item 1 above:						
Name:							
Position:							
Company Name:							
Mailing Address:							
Community:							
Prov/Terr:	Telephone:						
Postal Code:	Email:						
Field Supervisor:	Other:						

3. NAME AND CONTACT INFORMATION – CONTRACTORS AND SUB-CONTRACTORS

Include relevant names, responsibilities, and contact information. An additional table should be added for each contractor and sub-contractor.

Name:	Heather Burrell						
Position:	Senior Geologist and Partner a	at Archer, Cathro &	Associated (1981) Limited				
Company Name:	Archer, Cathro & Associates (1	1981) Limited					
Mailing Address:	41 MacDonald Road						
Community:	Whitehorse Telephone: (867) 667-4415						
Prov/Terr:	Yukon	Email:	hburrell@archercathro.com				
Postal Code:	Y1A 4R1	Other:					

x Use an "X" to indicate that contractor and/or subcontractor information is not available at this time.

4. LOCATION OF ACTIVITIES

Use the grey fields below to provide or reference the following information:

Traditional Place Name:

Dehcho Area

<u>Maps and Geographic Information System (GIS) Data:</u> Include a map in your Application Package identifying local geographic features, watercourses and water sources, project structures, and location(s) of any proposed waste deposits. Provide geographic coordinates (latitude and longitude) of project features, and the maximum and minimum project boundary in degrees, minutes, seconds, or decimal degrees. Include GIS data in your Application Package, if applicable. Refer to the MVLWB <u>Geospatial Data Submission</u> <u>Standards</u> for providing geographic information.

Minimum latitude:	62 6'49.89821"N	Maximum latitude:	62 11'7.72401N
Minimum longitude:	128 48'13.84189"W	Maximum longitude:	128 53'41.3718"W

NTS Map Sheet No.: Provide the map sheet number:

1051/02

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Land Types: Use an "X" to indicate the type(s) of the land on which the activities are proposed:

Private: Territorial Lands:	Free Hold/	Commissioner's/	v	Endoral Land	Municipal Land:	
	Private:	Territorial Lands:	^	reueral Lanu.	wunicipai Lanu.	

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5. ELIGIBILITY

Refer to section 18 of the Mackenzie Valley Land Use Regulations. Use an "X" to indicate which one applies:

6. RIGHTS AND/OR CONTRACTS TO SUPPORT ELIGIBILITY

Contact Indigenous, federal, and territorial governments, and other parties to ensure all appropriate rights, authorizations, permissions, dispositions, and contracts have been obtained or are in the process of being obtained (e.g., mineral exploration rights, quarry permits, licences of occupation, leases, access agreements and authorizations, etc.). List and provide confirmation of other authorizations that relate to the proposed activities; reference these in your Application Package (e.g., rights, permits, licences, etc.).

Claim Name	Claim Number
LI 1-3	K05626 - K05628

7. PERMIT TYPE AND CRITERIA

Refer to sections 4 and 5 of the <u>Mackenzie Valley Land Use Regulations</u>. Use an "X" to indicate which permitting criteria apply:

	Т	ype A			Ту	Туре В Туре С		
4(a)(i):		4(b)(i):		5(a)(i):		5(b)(i):		(SLWB and WLWB only):
4(a)(ii):		4(b)(ii):	Χ	5(a)(ii):		5(b)(ii):		
4(a)(iii):		4(b)(iii):		5(a)(iii):				
4(a)(iv):		4(b)(iv):		5(a)(iv):				
4(a)(v):				5(a)(v):				
				5(a)(vi):				

8. PROJECT DESCRIPTION

Include a project description in your Application Package, or for small-scale projects, describe the proposed activities in the grey field provided below. Include the name and type (e.g., lake, river) of water source(s), and the purpose and quantity of water to be used (rates, volumes (m³/day)). Indicate the total number of hectares to be used in each phase of the project, as well as through the life of the project.

Planning Phase Exploration project:

The project area is located about 35 km northwest of the Cantung mine. The proposed exploration program consists of channel sampling, mapping, prospecting and potentially helicopter supported diamond drilling (up to 10,000 m) annually, from a 10 to 15 person tent-frame camp. Non-burnable waste generated on-site will be backhauled to the Yukon as the program is in proximity to the NWT-Yukon border.

The project will require temporary staging of equipment as crews are moved to the site along the Howard's Pass Access Road. The staging area will be located outside the Nahanni National Park Reserve boundaries and is not meant for long term storage.

For the drilling aspect of the proposed project, the drill pads will be $25m^2$, drills will utilize water and biodegradable fluids. No water licence is triggered because there is no deposit of waste, and the water use (less than $100m^3/$ day) is below that which triggers the requirement of a water licence. Cuttings generated from the drills will be deposited in a sump immediately adjacent to the drill site and away from water bodies. All sumps will be back-filled with the material that was removed during the creation of the sump.

Exploration will be conducted to map and test the extent of lithium-tantalum bearing pegmatite dykes. Diamond drilling will primarily be located near the base of the cliffs within Cirques 2 & 3 (red circle shown on Figure 2). Some drilling may be conducted along the ridge. Up to 20 locations (drill pads) will be selected for drilling, each drill site will be approximately 25m².

Water will only be used at the capacity required for drilling and camp supply and will not exceed 100m³/day. Intake will be via a 4" hose place, with an intake screen, in a naturally occurring depression within an appropriate watercourse with sufficient supply. Where possible, drill fluids will be recirculated to reduce water needs.

Three unnamed streams have been identified as candidates for water usage, these are:

- 1. Unnamed Stream (Cirque 3) Drill Water at up to 80m³/day, total including 20 m³/day for camp
- 2. Unnamed Stream (Cirque 4) Drill water alternative source at up to 80m³/day
- 3. Unnamed stream (Cirque 3) Camp water at up to 20m³/ day

*Note – sources 1 & 2 will not be used at the same time, 2 is an alternate. Total drill water needed is less than 100 m^3 /day.

9. CAMP

Describe the proposed camp size and layout. Indicate the number of person-days; explain, with rationale, any variations in the number of people that may be on site over the life of the project.

The final camp location will be chosen by field personnel such that it is at least 100m away from the high water mark and is located on level terrane so that minimal leveling of tent platforms is required. The location will be selected in an area that is free of bush and trees and preferably where no vegetation will need to be removed to minimize impact on vegetative mat.

Camp will be approximately 0.005 ha in size and have less than or equal to 750 person-days, this number may decrease through crew changes and/ or project priorities. Camp structures will include 6 collapsible, aluminum frame canvas tents (3.5m x 4.2m) that be used to minimize the footprint required for camp infrastructure. Wood platforms will be constructed only for the kitchen and washing facilities, for sanitary and safety reasons.

See attached Standard Camp Layout – include number of structures, type and dimensions

10. ROADS AND ACCESSES

Provide detailed information about the construction, location, and decommissioning of any roads and accesses.

Use an "X" to indicate if this is to	Yes		Use an "X" to indicate if the route has	Yes	
be a pioneered road or access:	No	Х	been laid out or ground-truthed:	No	n/a

Lake Winn Resources intends to use the Nahanni Range Road and may use the Howards Pass Access Road (HPAR) for mobilization and resupply of its LNPG Project. Supplies and equipment will be transported to a staging area along the road as near as possible to the area of interest. From here a helicopter will be used to transport supplies and equipment to the work area.

The Nahanni Range Road (Yukon) has an established gravel put with outhouse facility that will likely be used for staging due to its location and cleared area. If this area is not useable for some reason, the second choice would be a location near Mac Creek, in the vicinity of 511,207 mE; 6,899,566 mN. The specific location of the staging area will determined through discussion with Parks Canada and will not be located less than 100 m from any highwater mark on a water course. No staging areas will be established along the HPAR within park boundaries. Any staging area used will lie outside of the park boundary. The site should be as near as possible to the proposed work area to minimize helicopter flight time to minimize disturbances to wildlife.

Traffic for mobilization is anticipated to require a total of six trucks and take two days. Three trucks would transport camp and personnel to the staging area on the first trip, while the remaining three trucks would transport drill equipment and personnel on the second trip. These two trips would be separated by two to three days, with no activity occurring along the road during this time.

Demobilization will follow a similar schedule at the end of the project. Routine traffic during operations shall be limited to one truck and trailer per week

Standard pickup trucks and trailers shall be utilized, with a maximum weight of no more than 10,000 lbs. No more than 5,000 L of fuel shall be transported by any one truck. On average 2,500 L of fuel is expected to be transported per trip. It is anticipated that the project will require no more than 10,000 L of fuel over the duration of the project. All fuel shall be transported in 205 L heavy-wall drums.

Helicopter refueling will take place at least 100 m from any water course. Spill kits will be located at the refueling area and on any vehicles carrying fuel. The company shall always follow its spill contingency plan, which has been included in the LUP Application.

In the event that wildlife is encountered near to the staging area, all helicopter and vehicle activity shall be suspended until such time as the wildlife have moved away and will not be disturbed.

No explosives shall be utilized or transported by the company. No water is planned to be withdrawn at this time from Mac Creek or any other location for dust suppression or other needs.

11. PROPOSED WASTE MANAGEMENT METHODS

Use the grey fields below to provide or reference the following information:

<u>Waste Management Plan</u>: Include a Waste Management Plan in your Application Package, if applicable, or for small-scale projects, describe the proposed waste management activities in the grey fields provided below. A template for the Plan can be found in the MVLWB <u>Guidelines for Developing a Waste Management</u> <u>Plan</u>.

Waste Type	Management Method(s)
Garbage:	A waste management plan for the proposed
Sewage (Sanitary and greywater):	activities has been developed in accordance with
Brush and trees:	MVLWB's Guidelines for Developing a Waste
Overburden (Organic soils, waste material, etc.):	Management Plan, March 2011 . This plan has been
Other (describe):	attached to the application form.

<u>Off-site Disposal</u>: If waste is proposed to be disposed of off-site within the NWT, written confirmation (e.g., an email, letter, etc.) from the facility/facilities indicating they will accept the waste is required. Include it/these in your Application Package. Please note this information will be required by the Board prior to commencement of activities.

12. EQUIPMENT

Identify the types of equipment proposed to be used.

Number	Type/Description	Size (weight in tonnes)	Proposed use
1	Helicopter portable diamond drill – Discovery I or equivalent	4800 lbs	Diamond drilling

13. FUEL

Identify all fuel types proposed to be used.

Type of Fuel	Number of containers	Capacity of containers (e.g., litres, pounds)	Type of container (e.g., barrel, tank, tidy- tank)	Proposed storage or staging location(s)
Diesel:	15-25	205L	Barrel	Camp/ Drill
Gasoline:	2-10	20L	Barrel	Camp

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Aviation Fuel:	5-15	205L	Barrel	Staging (off claims)
Propane:	2-8	100lb	Tank	Camp
Other: (describe)				

14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

Fuel will be transferred using a manual or electric "wobble" pump from 205L heavy-walled drums to the drill equipment. Drip trays and absorbent fuel diaper pads will be available to catch drips and potential small spills during fueling. Spill kits will be available at all refuelling locations.

15. SPILL CONTINGENCY PLAN

Include a Spill Contingency Plan in your Application Package, if applicable, or for small-scale projects, provide relevant details in the grey field provided below. An example of this Plan can be found in the INAC <u>Guidelines</u> for Spill Contingency Planning.

A spill contingency plan for the proposed activities has been developed in accordance with INAC's Guidelines for Spill Contingency Planning, April 2007. This plan has been attached to the application form.

16. PROPOSED PROJECT SCHEDULE AND TERM

Indicate the proposed project start and completion dates and the time of year the project activities are planned to occur. Describe any anticipated temporary closure(s) or seasonal shutdowns. Indicate the term requested.

Start Date:	July 2023	Completion Date:	September 15	
Work is anticipated to start in early July mid to late June and run for 8 weeks each year.				
Term of Permit Reques	ted:	5 years		

17. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

If the proposed project, or parts of the proposed project, may be exempt from preliminary screening, describe the rationale for the exemption in the grey field below. Include the date of the most recent screening, and/or the environmental assessment or impact review number.

Diamond drilling usually results in discharge of water and rock cuttings from the drill collar. Construction of drill site will disturb the ground and may disturb vegetation.

To mitigate potential impacts from drilling, the following measures will be taken:

- 1. Diamond drilling will utilize helicopter portable drills to eliminate disturbances caused by moving the drill via other means.
- 2. Drill sites will be constructed using timbers or leveled manually with pick and shovel using locally derived soil and rock.
- 3. Where possible the vegetative mat will be left intact. If vegetative mat must be removed, it will be placed aside and replaced after the drill has been moved off site and the area has been thoroughly cleaned.

- 4. Wherever possible, multiple drill holes will be completed from a single drill site to reduce the overall numbers of clearings. Each drill site will have an approximate footprint of 25m².
- 5. Sumps will be dug downhill from the drill pads to collect any cuttings, where steep rock slopes and sumps can not be dug directly downhill, drill water and cuttings will be directed from the collar into a hose, which will convey the cuttings to a nearby area where a sump can be dug.
- 6. Use of drill additives is minimized and, where used, only biodegradable products are used. The sump is filled in after the diamond drilling is finished at the site and only stable minerals (no sulphides) are anticipated and no source for acid rock drainage (ARD) is expected.
- 7. Water pumps used to supply the diamond drill are located as far away from any water source as possible. Long suction hoses are used to facilitate this.
- 8. The water pump will be inspected daily for any leaks and ensuring proper operation. A drip pan, fuel spill kit and absorbent cloth will be kept at the water pump in the event of any leaks.

Clearings for tents and other facilities in camp may cause harm to local vegetation and attract wildlife. The following mitigative measures will be used:

- 1. Camp will be located a minimum of 100m away from any high water marks on watercourses and on level terrane to minimize vegetative mat disturbance. If the vegetative mat is removed, it will be replaced once the camp has been removed.
- 2. Area of disturbance for camp will be 0.005 ha. Collapsible structures will be used, and wooden floors will only be used for the kitchen, drillers accommodations and washing facilities.
- 3. Waste products will be stored in airtight containers and incinerated daily to reduce odors that might attract wildlife.
- 4. Un-burnable products and ash will be removed from site and disposed of in accordance with the company's Waste Management Plan (attached).
- 5. Grey water sumps will be dug to contain kitchen and other grey water waster from camp and prevent them from reaching any watercourse. The sump will be filled in and reclaimed once all activities on the site are completed.
- 6. An electric fence will be installed around the incinerator site and grey water sumps to prevent wildlife from entering.

Fuel storage and mitigation of leaks and/ contamination:

- 1. Fuel will be stored on-site in 205L drums to prevent puncture and leakage.
- 2. Storage sites will be a minimum of 100m from high water marks on watercourses and sites will be well-marked.
- 3. Any fuel storage sites with greater than 10 drums will be bermed and lined with an impermeable liner.
- 4. Empty drums will be kept on-site in the event a drum is punctured and fuel must be transferred to a stable container.
- 5. Fuel absorbent cloth, berms and aggregates are kept on site in the event of a spill and notices disclosing the fuel prevention and remediation plan are posted at the camp and each fueling site and include procedures to be followed and the emergency spill hotline contact and information for the district.
- 6. Absorbent cloth is used during refuelling so that minor spillage can be caught before reaching the soil.
- 7. Refuelling of equipment will not be conducted within 100m of highwater mark on a watercourse.

Unless the project could be exempt from preliminary screening, using the Impact-Mitigation Table below, or the more detailed Table in Appendix D of the <u>Guide</u>, identify all potential impacts and possible mitigations that are relevant to the proposed project, and indicate whether any of the mitigation measures have been developed as a result of input from affected parties. Possible potential impacts are listed below; however, these lists are not exhaustive and may not apply to all projects. All information provided should reflect the size, scale, and nature of the proposed project. Cumulative impacts and climate change must be considered. Attach additional pages if needed.

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Potential Impacts Use an "X" to indicate which apply	x	Potential Project Impacts and Proposed Mitigations Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.
Loss of Species at Risk or may-be-at-risk plants		
Change in species composition		
Introduction of non-native (invasive) species		
Effects on plant health (dust, metals, toxins)		
Increased risk of fire		
Compaction of vegetation		
Other		
Terrestrial	Nilo	llife Habitat
Direct loss or removal of habitat, dens, or nests		
Loss or removal of keystone species and/or Species at Risk habitat	x	All staff shall be made aware of potential Species at Risk that may be encountered in the project area. Any wildlife sightings or encounters shall be recorded in a wildlife log.
Fragmentation of wildlife corridor		
Direct injury or mortality		
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging	x	Migratory Birds - As exploration is only possible at the LNPG Property between late June and August, there will unfortunately be overlap with migratory bird nesting periods. Vegetation clearing will be avoided wherever possible. The Camp site shall selected in an area free of bush and trees, and preferably where no vegetation will need to be removed. Prior to selecting any camp location or erecting any tents, staff shall be instructed to conduct a detail survey of the chosen area and identify any possible nesting sites. Should any active or suspected nests be identified, an alternate site shall be chosen. Locations of all known or suspected nests shall be made known to all staff and shall be avoided at all times.
Effects on population abundance		
Change in species diversity		
Effects on wildlife health (toxins, metals, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Human-wildlife conflicts	X	Potential conflict with wildlife will be mitigated through proper waste management (burning and removal) and installation of an electric fence around both the kitchen area and grey water sumps.
Other: Species at Risk	X tic H	All staff shall be made aware of potential Species at Risk that may be encountered in the project area. Any wildlife sightings or encounters shall be recorded in a wildlife log. A list of potential Species at Risk is attached (Appendix A) to this application. Habitat

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Potential Impacts Use an "X" to indicate which apply	x	Potential Project Impacts and Proposed Mitigations Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.
Breeding disturbances		
Change in species diversity		
Effects on health (toxins, metals, sediment, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Effects on population abundance		
Change in species diversity		
Other		
CULTURAL	coi	MPONENTS
Wildlife	На	rvesting
Loss or reduction in game species populations		
Effects on traditional land use, subsistence, and harvesting rights		
Other		
Cultural Integrity a	nd I	Heritage Resources
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle		
Change to or loss of heritage resource		
Other		
Social and Eco	nor	nic Well-being
Increased human health hazard and risk		
Economic opportunities or losses (employment, training)		
Change in ecological, cultural, social, or economic values identified for protection in approved Land Use Plans		
Impairment of the recreational or traditional uses of the land or water		
Impairment of the aesthetic quality of the land or water		
Changes to the use of the area by other non- Indigenous people (e.g., trappers, outfitters, residents, hunters, forest harvesters, other authorized projects) Other		

18. CLOSURE AND RECLAMATION

Use the grey field below to provide or reference the following information:

<u>Closure and Reclamation Plan</u>: Include a Closure and Reclamation Plan in the Application Package, if applicable, or for small-scale projects, describe the proposed closure and reclamation activities in the grey field provided below. Describe any temporary closure(s) and seasonal shutdowns. Please also refer to the MVLWB/AANDC <u>Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites</u> in the Northwest <u>Territories</u>.

<u>Closure Cost Estimate</u>: Prepare a Closure Cost Estimate and include it in your Application Package. Applicants are encouraged to contact Board staff, prior to applying, to determine which closure-cost-estimate template is most suited to the activities being applied for. Guidance is provided in section 2.2 of the MVLWB/INAC/GNWT <u>Guidelines for Closure and Reclamation Cost Estimates for Mines</u>. If the Application is submitted concurrently with a Water Licence Application, the estimate should include a breakdown of water- and land-related activities and liabilities.

All clearing, sumps and other disturbances made for drill sites and camp will be properly reclaimed upon completion of the exploration program. Any waste or other debris will be picked up and appropriately disposed of according to the company's Waste Management Plan (attached). All sites will be recontoured to match their previous state as closely as possible. Sumps and other excavations will be backfilled and recontoured. Any vegetative mat or other organic material removed to construct the site will be spread back over the site in a manner that will encourage regrowth.

Drills, sumps, fuel, tents and other camp equipment will be removed from the site at the end of the project. Any waste material shall either be incinerated on site if appropriate or removed and disposed of according to the company's Waste Management Plan.

19. ADDITIONAL SUPPORTING INFORMATION

Use the grey field below to provide or reference the following information:

<u>Engagement</u>: Conduct engagement, prepare an Engagement Record and Engagement Plan in accordance with the MVLWB <u>Engagement Guidelines for Applicants and Holders of Water Licences and Land Use</u> <u>Permits</u>, and include them in your Application Package. Templates are provided in the Guidelines. Please also refer to <u>Information for Proponents on MVLWB's Engagement Requirements</u>.

<u>Land Use Plans</u>: Contact the applicable Land Use Planning Board or the Tłįchǫ Government to discuss conformity with the relevant land use plan(s). Include a Land Use Plan Conformity Table in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

<u>Traditional (Environmental) Knowledge (TEK/TK)</u>: Provision of TEK/TK is mandatory for applications to the SLWB. Other applicants are strongly encouraged to include TEK/TK.

<u>Studies Undertaken to Date</u>: List any relevant studies that support the proposed activities and include them in your Application Package.

Project has not undertaken an environmental or socio-economic review by current or previous owners and to-date, wildlife and air quality information has not been collected. Through this planning phase exploration program, the activities will determine if sufficient mineralization is present to warrant more advanced exploration and the collection of environmental and/ or socio-economic baseline data.

20. FEES

Refer to the Guide_for assistance in determining relevant fees.

Type of Fee

Amount (\$)

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Land Use Permit – Application

Application fee (if applicable):	\$150
Land-use fees (for federal areas only):	\$0
Total Fees:	* \$150

21. SIGNATURE

Heather Burrell	Senior Geologist
Applicant's Name (print) or	Position (print)
Company Name	

Heatler Burrell. Jan 11, 2023 Signature Date

Review the application package checklist provided in the Guide, and submit completed applications to the Regulatory Manager or Executive Director identified on the "Contact Us" pages of the respective Land and Water Board (<u>www.mvlwb.com</u>, <u>www.wlwb.ca</u>, <u>www.slwb.com</u>, <u>www.glwb.com</u>).